

B.C.A. (2010 COURSE SEM- V : SUMMER - 2018

SUBJECT: COMPUTER NETWORKS - II

Day: **Saturday**
Date: **28/04/2018**

S-2018-1739

Time: **02.00 PM TO 05.00 PM**
Max. Marks: 70

N.B.:

- 1) **Q. No. 1 is COMPULSORY.**
 - 2) Attempt any **FOUR** questions from **Q. No. 2 to Q. No. 7.**
 - 3) Figures to the right indicate **FULL** marks.
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Q.1 What is the need of Layered Network Architecture? Explain the role of Protocols, Services and Interfaces in layered architecture. (14)

Q.2 What the role of connecting devices in Internetworking? Explain functioning of Hub and Switch in detail. (14)

Q.3 What is the purpose of Internet Control Message Protocol (ICMP)? Explain different types of ICMP messages. (14)

Q.4 Differentiate between the following: (14)
i) TCP Vs UDP
ii) LAN Vs WAN

Q.5 What is the purpose of Domain Name System (DNS)? How the process of name address resolution is performed by DNS? (14)

Q.6 Define digital signature. How digital signature can be created using public key? (14)

Q.7 Write short notes on Any **TWO**: (14)
a) Digital Subscriber Line (DSL) Technology
b) X.25
c) Firewall

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